CLAIMS

What is claimed is:

1. A mounting plate assembly for mounting a wheel chock on the load surface of a transporting vehicle having an attached logistic track, the mounting plate assembly comprising:

a mounting plate adapted to receive and secure a wheel chock thereto;

a first fitting adapted to removably engage the logistic track at an opening therein, said first fitting attached to the rear of said mounting plate for securing said mounting plate to the logistic track in a longitudinal direction;

at least one key extending beneath said mounting plate fitting into an opening in the logistic track to restrain movement of said mounting plate in a direction transverse to the longitudinal direction of the logistic track; and

a second fitting adapted to removably engage the logistic track at an opening therein, said second fitting attached to the front of said mounting plate for securing said mounting plate to the logistic track in a longitudinal direction.

2. The mounting plate assembly of claim 1 further comprising a first logistic strap having a first end fastened to the rear of said mounting plate and a second end affixed to said first fitting to secure said strap and said mounting plate thereto.

3. The mounting plate assembly of claim 1 further comprising:

a cam buckle attached to said mounting plate; and

a second logistic strap deployed through said cam buckle having a first end affixed to said second fitting and a free end such that when said second fitting is engaged in the logistic track opening said free end may be pulled to increase tension in said second strap to thereby secure said mounting plate longitudinally to the logistic track.

4. The mounting plate assembly of claim 3 further comprising a cam block secured to said mounting plate, said cam buckle being attached to said cam block.

5. The mounting plate assembly of claim 1 further comprising a plurality of longitudinally spaced keys extending beneath said mounting plate, each said key being adapted to fit into an opening of the logistic track and having a transverse length slightly less than the transverse length of the logistic track opening to thereby restrain movement of said mounting plate in a direction transverse to the longitudinal axis of the track.

6. The mounting plate assembly of claim 5 wherein said mounting plate contains at least one longitudinal slot for every said key such that a fastener can extend from the top of said mounting plate through said slot to attach said key to said mounting plate in a longitudinally slideable relation.

7. The mounting plate assembly of claim 6 further comprising spacer means longer than the thickness of said mounting plate associated with each said fastener for spacing said keys with respect to said mounting plate whereby said fasteners and said keys may slide longitudinally along the bottom of said mounting plate but are restrained from moving in a direction transverse to the longitudinal axis of said mounting plate.

8. The mounting plate assembly of claim 1 further comprising a plurality of side spacer bars attached to the underside of said mounting plate such that said spacer bars will engage the load surface of the transporting vehicle to support said mounting plate at a level above the attached logistic track in stable relation.

9. The mounting plate assembly of claim 1, wherein said second fitting for attaching the front of said mounting plate to the logistic track comprises:

a first gripping plate being adapted to extend from above to beneath said mounting plate and having a notch on each side with lower facing edges capable of engaging the transverse margins of the logistic track which define an opening in the logistic track;

a second gripping plate having a lower key tab portion adapted to fit into an opening of the logistic track with a transverse dimension slightly less than that of the logistic track opening to thereby restrain movement of said mounting plate in a direction transverse to the longitudinal axis of the track such that said second gripping plate replaces one of the said keys, and further having a top portion with shoulder portions having facing edges capable of engaging the side transverse margins defining the logistic track opening, said second gripping plate having a surface abutting a surface of said first gripping plate in slideable relation, said mounting plate having a transverse slot through which said gripping plates are deployed; and

a means for applying a longitudinal force to said gripping plates to cause said gripping plates to form an angle with the logistic track to thereby cause the facing edges of said notches in said first gripping plate and said shoulders of said second gripping plate to engage the transverse margins of the logistic track which define an opening in the logistic track in fixed relation to secure said mounting plate to the logistic track.

10. The mounting plate assembly of claim 9 wherein said means for applying a longitudinal force to said gripping plates further comprises:

a socket joint attached to the front surface of said first gripping plate; and

a threaded rod rotationally mounted on said mounting plate and having a first end engageable in said socket joint, said threaded rod being rotateable to apply a longitudinal force to said socket joint to cause said gripping plates to form an angle with the logistic track to thereby cause said facing edges of said gripping plates to engage the transverse margins of the logistic track in fixed relation to secure said mounting plate to the logistic track.

11. The mounting plate assembly of claim 9 wherein one of said gripping plates contains a vertical slot and further comprising a retaining rod having a first end attached to the other said gripping plate and a second end passing through said slot in said one gripping plate and a spring compressed between the second end of said retaining rod and said one gripping plate to bias the abutting surfaces of said gripping plates together in a first position, and to permit said gripping plates to be separated and displaced vertically as said retaining rod is displaced vertically in said slot to a second position in which said key tab portion of said second gripping plate is located above said notches in said first gripping plate.

12. The mounting plate assembly of claim 11 further comprising a plurality of pins extending from one said gripping plate into locator holes in the other said gripping plate when said gripping plates are in said first position to limit the slideable movement of said first gripping plate with respect to said second gripping plate.

13. The mounting plate assembly of claim 12 wherein said second end of said retaining rod includes a removable head portion for retaining said spring in compressed relation between said head portion and the other said gripping plate.

14. The mounting plate assembly of claim 1, further comprising:

a mounting key fixedly attached to said mounting plate, said mounting key having an element that is deployed generally perpendicular to said mounting plate and extending through an opening in said mounting plate and adapted to fit into a logistic track opening located below said opening in said mounting plate to restrain movement of said mounting plate in a direction transverse to the longitudinal axis of said logistic track;

a cam buckle fastened to the top surface of said mounting key; and

a second logistic strap deployed through said cam buckle having a first end affixed to said second fitting and a free end such that when said second fitting is engaged in the logistic track opening said free end may be pulled to increase tension in said second strap to thereby secure said mounting plate longitudinally to the logistic track.

15. The mounting plate assembly of claim 1 further comprising a wheel chock secured to the top surface of said mounting plate.

16. A mounting plate assembly for mounting a wheel chock on the load surface of a transporting vehicle, the mounting plate assembly comprising:

a mounting plate adapted to receive and secure a wheel chock thereto;

a logistic track fixed to the transporting vehicle and having a plurality of longitudinally spaced openings extending transverse to the longitudinal axis of said track;

a first fitting attached to the rear of said mounting plate and removably engaged in an opening of said logistic track to secure said mounting plate to said logistic track in a longitudinal direction;

at least one key extending beneath said mounting plate and fitting into a said track opening to restrain movement of said mounting plate in a direction transverse to the longitudinal axis of said track; and

a second fitting attached to the front of said mounting plate and removably engaged in an opening of said logistic track to secure said mounting plate to said logistic track in a longitudinal direction.

17. The mounting plate assembly of claim 16 further comprising a wheel chock secured to the top surface of said mounting plate.

18. A mounting plate assembly for mounting a wheel chock to the floor of a transporting vehicle, the mounting plate assembly comprising:

a mounting plate;

a wheel chock attached to the top surface of said mounting plate;

a logistic track attachable to the load surface of a transporting vehicle, said track having a plurality of longitudinally spaced openings extending transversely to the longitudinal axis of said track;

a first tension means for connecting the rear of said mounting plate to a first fitting adapted to engage said logistic track in fixed relation;

a plurality of longitudinally spaced keys extending beneath said mounting plate, each said key adapted to fit into a said opening of said logistic track and having a transverse length slightly less than the width of said logistic track opening to thereby restrain movement of said mounting plate in a direction transverse to said track;

a second tension means having a first end affixed to a second fitting adapted to engage said logistic track in fixed relation; and

a means for engaging and restraining said second tension means wherein when said first and second fittings are engaged in openings of said logistic track said second tension means may be pulled and restrained to increase tension in both said tension means to thereby secure said mounting plate longitudinally to said logistic track.

19. The mounting plate assembly of claim 18 wherein said mounting plate contains at least one longitudinal slot for every said key such that a fastener can extend from the top of said mounting plate through said slot to attach said key to the bottom of said mounting plate in slideable relation.

20. The mounting plate assembly of claim 19 further comprising a spacer associated with each fastener, said spacers being longer than the thickness of said mounting plate such that when the fasteners are tightened in engagement with said keys said spacers will extend through said slots in slideable relation to permit said keys to move longitudinally along the bottom of said mounting plate but be restrained from moving in a transverse direction to said mounting plate.

21. The mounting plate assembly of claim 18 further comprising a plurality of side spacer bars attached to said mounting plate such that said spacer bars will engage the load surface to support said mounting plate at a level above said logistic track in stable relation.

22. The mounting plate assembly of claim 18 further comprising a wheel chock secured to the top surface of said mounting plate.